

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A program processing apparatus comprising:

extracting means for extracting program information for programs in accordance with personal preferences,

program management means for managing a database that stores the extracted program information for programs;

transmission means for transmitting the program information stored in the database to one of a plurality of electronic apparatuses using wireless communication;

wherein the transmitted program information is a user's most recent individual program information;

control means for controlling a plurality of programs recording and playing apparatuses in accordance with received selection information;

determination means for determining whether the selection information indicates information that has been recorded previously by one of the plurality of programs recording and playing apparatuses and determining which one of the plurality of programs recording and playing apparatuses the information is recorded on, and for designating a point for which to begin playback as a function of the selection information when the determination means determines the information has been recorded previously and determines which one of the programs recording and playing apparatuses the information is recorded on,

wherein the plurality of electronic apparatus control the plurality of programs recording and playing apparatus through the program processing apparatus,

wherein a user of one of the plurality of electronic apparatus chooses whether the user is indoor or outside by operating an operation switch and sends to the program processing apparatus a link request indicating whether the user is indoor or outside,

wherein the plurality of programs recording and playing apparatus prepares for playing in accordance with the designation and transmits an acknowledgement, and

wherein, when the acknowledgement is confirmed, playback is ready to begin;
and

switching means for switching a wireless communication unit between communication using a public circuit based on a spread spectrum communication system and short-distance wireless communication based on the spread spectrum communication system;
and

wherein the switching means determines whether to display program information from a memory of the requesting electronic apparatus, as a function of,

whether a request to link from one of the plurality of electronic apparatuses is from indoors or from outside, and

whether the link is ~~unstable~~unstable,

wherein the program processing apparatus receives a termination request sent from the one of the plurality of electronic apparatus and terminates the link between the program processing apparatus and the one of the electronic apparatus when an operation switch of the one of the electronic apparatus is not operated for a predetermined period of time.

2. (Previously Presented) A program processing apparatus according to claim 1, wherein said plurality of electronic apparatus further comprises a portable terminal.

3. (Previously Presented) A program processing apparatus according to claim 2, wherein said portable terminal comprises a private apparatus.

4. (Previously Presented) A program processing apparatus according to claim 1, wherein the programs recording and playing apparatus comprises an audio apparatus or a video apparatus.

5. (Canceled)

6. (Previously Presented) A program processing apparatus according to claim 1, wherein the wireless communication with said electronic apparatus is switched between communication using a public circuit and short-distance wireless communication.

7. (Previously Presented) A program processing apparatus according to claim 6, wherein the short-distance wireless communication is based on the Bluetooth system.

8. (Previously Presented) A program processing apparatus according to claim 6, wherein the short-distance wireless communication is based on an infrared data communication system.

9. (Currently Amended) A portable terminal for recording and playing programs, comprising:

transmission means for transmitting program information stored in a database that stores the program information for programs to one of a plurality of electronic apparatuses using wireless communication,

wherein the program information stored in the database is extracted in accordance with personal preferences, and

wherein the transmitted program information is a user's most recent individual program information;

display means for displaying the program information obtained using said transmission means;

command transmission means for transmitting a command that controls a plurality of programs recording and playing apparatuses to a server that controls recording and playing performed by the programs recording and playing apparatuses;

determination means for determining whether the selection information indicates information that has been recorded previously by one of the plurality of programs recording and playing apparatuses and determining which one of the plurality of programs recording and playing apparatuses the information is recorded on, and for designating a point for which to begin playback as a function of the command when the determination means determines the information has been recorded previously and determines which one of the programs recording and playing apparatuses the information is recorded on,

wherein a user of the portable terminal chooses whether the user is indoor or outside by operating an operation switch and sends to the server a link request indicating whether the user is indoor or outside,

wherein the portable terminal controls the plurality of programs recording and playing apparatus through the server,

wherein the determined programs recording and playing apparatus prepares for playing in accordance with the designation and transmits an acknowledgement, and

wherein, when the acknowledgement is confirmed, playback is ready to begin;
and

switching means for switching a wireless communication unit between communication using a public circuit based on a spread spectrum communication system and short-distance wireless communication based on the spread spectrum communication system;
and

wherein the switching means determines whether to display program information from a memory of the requesting electronic apparatus, as a function of

whether a request to link from one of the plurality of electronic apparatuses is from indoors or from outside and

whether the link is ~~unstable~~unstable,

wherein the portable terminal sends a termination request to the one of the plurality of electronic apparatus to terminate the link between the portable terminal and the one of the electronic apparatus when an operation switch of the portable terminal is not operated for a predetermined period of time.

10. (Previously Presented) A portable terminal for recording and playing programs according to claim 9, wherein said portable terminal is a feature of the electronic apparatus using wireless communication.

11. (Previously Presented) A portable terminal for recording and playing programs according to claim 10, wherein said portable terminal comprises a private apparatus.

12. (Previously Presented) A portable terminal for recording and playing programs according to claim 9, wherein the programs recording and playing apparatus comprises an audio apparatus or a video apparatus.

13. (Canceled)

14. (Previously Presented) A portable terminal for recording and playing programs according to claim 9, wherein the wireless communication with said electronic apparatus is switched between communication using a public circuit and short-distance wireless communication.

15. (Previously Presented) A portable terminal for recording and playing programs according to claim 14, wherein the short-distance wireless communication is based on the Bluetooth system.

16. (Previously Presented) A portable terminal for recording and playing programs according to claim 14, wherein the short-distance wireless communication is based on an infrared data communication system.

17. (Currently Amended) A program processing method executed by a program processing apparatus, comprising:

extracting program information for programs in accordance with personal preferences,

managing a database that stores the extracted program information for programs;
transmitting the program information stored in the database to one of a plurality of electronic apparatuses using wireless communication,

wherein the transmitted program information is a user's most recent individual program information;

determining whether a request to link is from indoors or from outside;

determining whether the link is unstable;

determining whether to display program information from a memory of a portable device as a function of the request to link and the determination of whether the link is unstable;

controlling a plurality of programs recording and playing apparatus in accordance with received selection information;

determining whether the selection information indicates information that has been recorded previously by one of the plurality of electronic apparatuses and determining which one of the plurality of electronic apparatuses the information is recorded on;

designating a point for which to begin playback as a function of the selection information when determining the selection information indicates information that has been recorded previously by one of the plurality of electronic apparatuses and when determining which one of the plurality of electronic apparatuses the information is recorded on;

transmitting an acknowledgement, such that when the acknowledgement is confirmed, playback is ready to begin; and

switching a wireless communication unit between communication using a public circuit based on a spread spectrum communication system and short-distance wireless communication based on the spread spectrum communication system, and

receiving a termination request sent from the one of the plurality of electronic apparatus and terminating the link between the program processing apparatus and the one of the electronic apparatus when an operation switch of the one of the electronic apparatus is not operated for a predetermined period of time,

wherein a user of one of the plurality of electronic apparatus chooses whether the user is indoor or outside by operating an operation switch and sends to the program processing apparatus a link request indicating whether the user is indoor or outside, and

wherein the plurality of electronic apparatus control the plurality of programs recording and playing apparatus through the program processing apparatus.

18. (Currently Amended) A method, executed by a portable terminal, for processing programs, comprising:

transmitting program information stored in a database that stores the program information for programs to one of a plurality of electronic apparatuses using wireless communication,

wherein the program information stored in the database is extracted in accordance with personal preferences, and

wherein the transmitted program information is a user's most recent individual program information;

determining whether a request to link is from indoors or from outside;

determining whether the link is unstable;

determining whether to display program information from a memory of a portable device as a function of the request to link and the determination of whether the link is unstable;

displaying the program information obtained;

transmitting a command that controls a plurality of programs recording and playing apparatus to a server that controls recording and playing performed by the plurality of recording and playing apparatuses;

determining whether the selection information indicates information that has been recorded previously by one of the plurality of electronic apparatuses and determining which one of the plurality of electronic apparatuses the information is recorded on;

designating a point for which to begin playback as a function of the selection information when determining the selection information indicates information that has been

recorded previously by one of the plurality of electronic apparatuses and when determining which one of the plurality of electronic apparatuses the information is recorded on;

preparing the determined electronic apparatus for playing in accordance with the designation;

transmitting an acknowledgement such that when the acknowledgement is confirmed, playback is ready to begin; and

switching a wireless communication unit between communication using a public circuit based on a spread spectrum communication system and short-distance wireless communication based on the spread spectrum communication systems, and

transmitting a termination request to the one of the plurality of electronic apparatus to terminate the link between the portable terminal and the one of the electronic apparatus when an operation switch of the portable terminal is not operated for a predetermined period of time.

wherein a user the portable terminal chooses whether the user is indoor or outside by operating an operation switch and sends to the server a link request indicating whether the user is indoor or outside,

wherein the portable terminal controls the plurality of programs recording and playing apparatus through the server.

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